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REMARKS

A new substitute application has been submitted in a sincere attempt to overcome the criticisms in the Office Action of the text in the application as filed.

Applicant respectfully submits, however, that it is not necessary in this application to provide all of the identifiers indicated in Sections D. and E. of the Office Action. Applicant submits that the essential characteristics by which the plant can be distinguished are amply recited in the enclosed application.

Applicant clarifies the "single" and "double" matter in Section B on page 5 of the Office Action thusly. The term "single" refers to the type of flower head that is present in chrysanthemums rather than to the rows of petals. A daisy type is meant when "single" is used. The terms "semi-double" and "double" refer to other types of chrysanthemums flower heads; these terms are commonly used in the botanical description of chrysanthemums, including descriptions when obtaining a PBR in Europe.

The Examiner in Section F. on page 6 of the Office Action asked for verification of PBR EU 0961/2001 as that listing did not appear in the UPOV Plant Variety Database. We are informed that

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the EU PBR number is 2001/0961, rather than 0961/2001. It is believed apparent that the documents are the same.

In view of the foregoing revisions and remarks, it is respectfully submitted that the case is in immediate condition for allowance and a USPTO paper to those ends is earnestly solicited.

The Examiner is asked to contact the undersigned if more changes are required prior to allowance.

Respectfully submitted,

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Date

CAW/ch

Enclosures:

Substitute application

Markup

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Delia 6. 09/910,029 MARKUP

BACKGROUND OF THE INVENTION

'Redock Dark' is a product of a breeding and selection program which had the objective of finding color mutants of 'Redock'. The new plant of the present invention comprises a new and distinct cultivar of chrysanthemum plant that is a natural occurring sport of a parent chrysanthemum named 'Redock' (unpatented). A comparison with Parent | Photos chrysanthemum 'Redock' is also made in this application. The new cultivar was discovered as a whole plant mutation in September 1999 by Rob Noodelijk in a controlled environment (greenhouse) in Rijsenhout Holland. The first act of asexual reproduction of 'Redock Dark' was accomplished when vegetative cuttings were taken from the initial selection in November 1999 in Rijsenhout Holland.

SUMMARY OF THE INVENTION

The present invention is a new and distinct variety of chrysanthemum bearing medium sized blooms with pink ray-florets and yellow-green disc florets.

BRIEF DESCRIPTION OF THE DRAWINGS

The present invention of a new and distinct variety of chrysanthemum is shown in the accompanying drawings, the color Chrysan trumm monfallum being as nearly true as possible with color photographs of this type.

Fig. 1 shows a plant of the cultivar in full bloom.

Fig. 2 shows the foliage of the cultivar.

DESCRIPTION OF THE INVENTION

This new variety of chrysanthemum is of the botanical classification dendranthema grandiflora The observations and measurements were gathered from plants grown in April / May in a greenhouse in Rijsenhout Holland in a photo-periodic controlled crop under conditions generally used in commercial practice. The greenhouse temperatures during this crop were at day-time between 18°C and 25°C and at night 20°C. After a long day period of 14 days the photo-periodic response time in this crop was 47 days. After the long day period to flowering growth retardants were applied 3 times in an average dose of 2.5 gram / liter water. No tests were done on disease or insect resistance or susceptibility. This new variety produces medium sized blooms with pink ray-florets and yellow-green disc-florets blooming on the plant for 4 weeks. This new variety of chrysanthemum has been found to retain its distinctive characteristics throughout successive propagations however the phenotype may vary significantly with variations in environment such as light intensity and temperature. To show the phenotype as described 'Redock Dark' can be planted without assimilation lightning (high pressure sodium lamps) between week 50 and week 40 of the next year under greenhouse conditions in Holland. With assimilation light (minimum level 2500 lux) it can be planted year round under greenhouse conditions in Holland.

From the cultivars known to inventor the most similar existing cultivar in comparison to 'Redock Dark' is 'Redock'. When 'Redock' and 'Redock Dark' are being compared the following differences and similarities are noticed: The difference of 'Redock' and 'Redock Dark' is the darker pink ray-floret color for which characteristics 'Redock Dark' has been selected out of 'Redock'. All other characteristics of 'Redock' and 'Redock Dark' are similar.

From other commercial varieties 'Dark Reagan' (USPP 8966) and 'Blue Pink Elite Reagan' (not patented yet) are the most similar. The differences between 'Dark Reagan', 'Blue Pink Elite Reagan' and 'Redock Dark' are (1) Flower form and color. The ray-florets of 'Redock Dark' are more upright, less broad, more pointed and more concave. The ray-floret color of 'Redock Dark' is slightly more red. (2) Vigour. Under the same circumstances the plants of 'Redock Dark' are 20 cm longer. (3) Response time. The response time of 'Redock Dark' is shorter. (4) The disc-floret size of 'Redock Dark' is smaller. (5) Foliage size and color. The foliage of 'Redock Dark' is bigger and more yellow-green.

The following is a description of the plant and characteristics that distinguish 'Redock Dark' as a new and distinct variety.

The color designations are taken from the plant itself. Accordingly, any discrepancies between the color designations and the colors depicted in the photographs are due to photographic tolerances. The color chart used in this description is: The Royal Horticultural Society color chart, edition 1995.

Table 1:Botanical Description of

CULTIVAR 'Redock Dark'

Bud

Size

small, cross-section +/- 0.7 cm height +/- 0.9 cm

Outside Color

Red-purple 73 D

Involucral bracts

3 rows, length 8 mm, width 3 mm

Involucral bracts among disc-florets

Not present

Involucral bracts color

Green 147 B

Bloom

Type

Single

Height

High

Size

Medium

Fully Expanded

7.0 cm

Number of blooms per single stem

Average of 14

Seeds

Not produced

Performance (blooming period)

4 weeks

Fragrance

Typical chrysanthemum

Color

Center of the flower (disc-florets)

Immature yellow-green 144 A

Mature yellow-green 151 C

Color of upper surface of the majo-

Red - purple 74 D

rity of the ray-florets

Color of the lower surface of the

Red-purple 73 D

majority of the ray-florets

Tonality from Distance

A spray mum with pink flowers and a yellow-

green disc

Discoloration to color

To color 73 D

Ray florets

Texture Upper and under side smooth

Number 26 – 28

Cross-section Strongly concave

Longitudinal axis of majority Reflexing

Length of corolla tube Short

Ray-floret length 3.3 cm

Ray-floret width 1.0 cm

Ratio length / width Medium

Shape of tip Pointed, very occasionally round

Disc florets

Disc diameter 0.8 - 1.0 cm

Distribution of disc florets Numerous, clearly visible at all stages of

flowering

Shape Tubular

Color Yellow-green 144 A

Receptacle shape Conical raised

Reproductive Organs

Stamen (present in disc florets only) Thin 3 mm in length

Stamen color Yellow-green 144 B

Pollen No pollen present

Pollen color Not applicable

Styles (present in both ray and disc

florets)

Thin

Style color Yellow-green 144 B

Style Length 4 mm

Stigmas Yellow-green 144 B

Stigma Width 2 mm

Ovaries Enclosed in calyx

Plant

Form A spray mum meant for erect culture

Growth habit Upright

Growth rate Very vigorous

Height 125 – 135 cm

Internodes 2.5 - 3.0 cm

Spray formation Corymbiform

Stem Color Yellow-green 147 B

Stem Strength Medium

Stem Brittleness Present

Stem Anthocyanin Coloration Absent

Peduncle length Near the top 16 cm, near the middle 23 cm, near

the bottom 28 cm

Peduncle color Green 147 B

Peduncle, attachment Brittle

Peduncle, angle with stem Small, 30 °C

Flowering Response(photo-periodic 47 days

controlled crop, not natural season)

Foliage

Color Upper side yellow-green 147 A

Under side green 138 B

Size large; length 12.0 - 14.0 cm,

width 7.0-8.0 cm

Quantity (number per single stem) 30-34

Shape Ovate and deeply lobed

Texture upper side Fleshy and glabrous

Texture under side Pubescent

Ribs and veins upper side Ribs and veins well developed

Ribs and veins under side Ribs and veins well developed

Venation arrangement Palmate

Shape of the margin Lobed

Shape of Base of Sinus Between Round

Lobes

Lateral Lobes

Margin of Sinus Between Lateral Converging

Shape of Base Rounded

Apex Mucronate

Table 2: Differences with the comparison Varieties

	'Redock Dark'	'Redock'	'Dark Reagan'	'Blue Pink Elite
				Reagan'
Ray-floret color	Red-purple 74 D	Purple 75 A	Red-purple 69 B	Purple 75 C
Flower height	High	High	Flat	Flat
Cross-section of ray-floret	Strongly concave	Strongly concave	flat	Flat
Vigour	Very vigorous	Very vigorous	Vigorous	Vigorous
Plant height	125 – 135 cm	125 – 135 cm	100 – 125 cm	105 – 130 cm

LCLAIM:

A new and distinct variety of chrysanthemum plant as described and illustrated.

ABSTRACT

A Chrysanthemum plant named 'Redock Dark' characterized by its medium sized blooms with pink ray-florets and yellow-green disc florets.